

## Subject: Essential Maintenance for Your Borg Warner R10/R11 Overdrive

For those who have recently acquired a car or truck equipped with a Borg Warner R10 - R11 overdrive, or owner for awhile, questions about proper maintenance are very common. Here is a straightforward guide to performing an essential fluid change to ensure its long-term health and performance.

### Step 1: Drain the Old Gear Oil

Unless you have a complete maintenance history, it's best to start fresh. The gear oil in the transmission and the overdrive unit can be decades old, often contaminated with dirt and rust.

- You must drain **both** the main transmission and the overdrive unit.
- These two components are connected by internal passageways and share the same oil.

### Step 2: Flush the System

To properly clean the internal components, you will need to flush the system.

- **Recommended Flushing Agent:** Kerosene is the most effective choice. If you cannot find it, diesel fuel is a suitable alternative.
- **Procedure:** Fill both the transmission and the overdrive with the flushing agent, drain it, and repeat the process as necessary until the drained fluid is free of black residue and rust.

### Step 3: Refill with the Correct Lubricant

Once the system is clean, you can refill it with fresh oil. Choosing the correct oil is **critical** to the function and survival of the overdrive unit.

#### Recommended Oil:

- Use a **straight mineral oil**.
- For most driving conditions: **SAE 80**
- For heavy-duty use or in hotter climates: **SAE 90**

**! IMPORTANT WARNING !** Under no circumstances should you use **Hypoid Axle Type Lubricants** or **Synthetic Gear Oils**. These oils contain additives that will damage the internal components of the Borg Warner overdrive.

### Step 4: Filling Procedure

- Begin by filling the **overdrive unit first**. Pour the mineral oil into the filler hole until it begins to spill out.
- Next, fill the **main transmission** with the same oil until it also begins to run out of its filler hole.

- Once both are full, securely replace the filler plugs.

Performing this service will ensure your transmission and overdrive begin their new life with you clean, well-lubricated, and protected.

### **Learn More with Our Complete Guide and Electrical parts**

If you're interested in learning more about the complete operation, troubleshooting, and maintenance procedures for these units, we offer a comprehensive manual.

**Link:** [Borg Warner Overdrive Operation and Maintenance Manual](#)

[We also carry all the electrical and control parts 6 and 12 volts. click here](#)

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